

WIDE RATIO TRANSMISSIONS WITH THREE
INTERCONNECTED PLANETARY GEAR SETS
AND A STATIONARY MEMBER

ABSTRACT OF THE DISCLOSURE

The family of transmissions has a plurality of members that can be utilized in powertrains to provide at least eight forward speed ratios and one reverse speed ratio. The transmission family members include three planetary gear sets having seven torque-transmitting mechanisms, one fixed interconnection and one grounded planetary gear member. The powertrain includes an engine and torque converter that is continuously connected to at least one of the planetary gear members and an output member that is continuously connected with another one of the planetary gear members. The seven torque-transmitting mechanisms provide interconnections between various gear members and the transmission housing, and are operated in combinations of two to establish at least eight forward speed ratios and at least one reverse speed ratio.